

Hickman Air Pollutant Sources

Hickman Air Emission Sources

Arlington (North and South) – currently designed for a capacity of 4.3 million chickens

- Pollutant sources
 - Chicken houses
 - Egg processing plant
 - Boilers for shell eggs
 - Protein plant for culled chickens (fed to chickens and in future pet food)
 - Rotary dryers (and associated manure belt) to dry compost prior to becoming fertilizer pellet

Tonopah – currently designed for a capacity of 5.5 million chickens

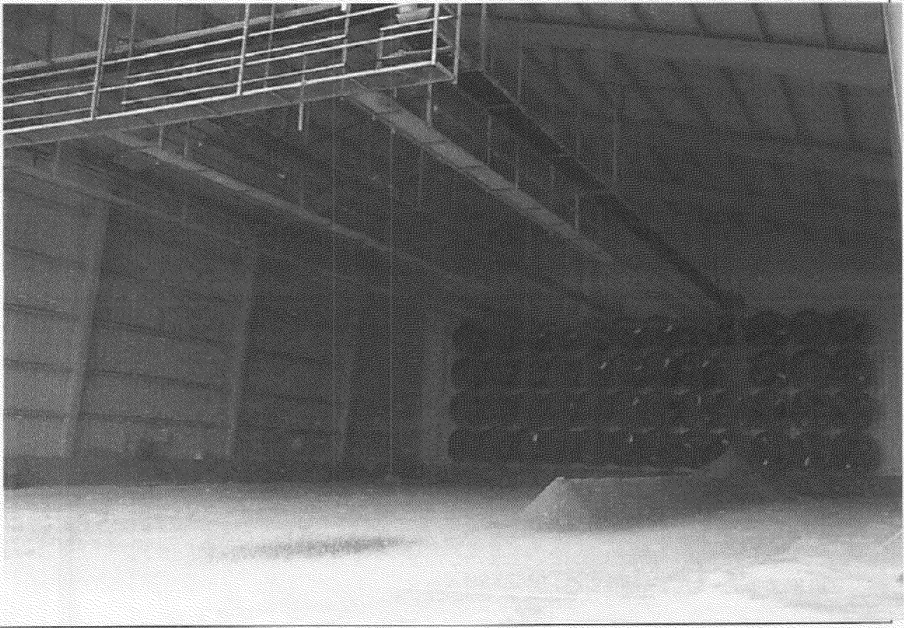
- Pollutant sources
 - Chicken houses

Tonopah manure houses

Photo No. 4	Date: 8/10/2015
Direction Photo Taken: West	
Photo Description: Photo taken from 415 th Ave looking west at the manure barns.	





Tonopah manure house

Photo No. 2	Date: 10/9/2014
Direction Photo Taken: West	
Photo Description: Photo of three sided manure storage structure. Manure is feed into this structure by conveyer belts.	
	

Tonopah manure transfer to truck

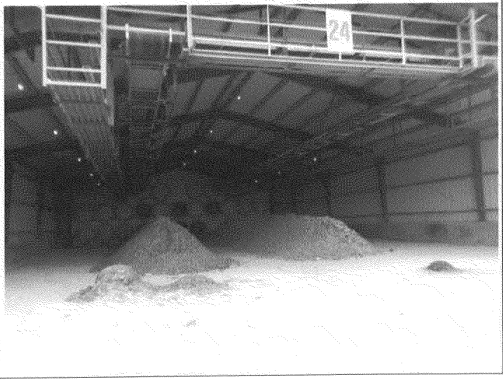
Photo No. 3	Date: 8/10/2015
Direction Photo Taken: Southwest	
Photo Description: Photo of waste being loaded into haul truck.	




Site Location: Hickman's Egg Ranch - 32425 W. Salome Hwy, Arlington, AZ 85322		Photographer: Emily Bonanni	Camera: Dell Tablet
Weather: Overcast sky			
Photo No. 1	Date: 2/6/2014		
Direction Photo Taken: Southeast			
Photo Description: Hen house with operating exhaust fans			

Arlington manure storage

Photo No. 2	Date: 2/6/2014
Direction Photo Taken: East	
Photo Description: Manure enclosure technology	

A black and white photograph showing the interior of a large barn. In the foreground, there are several large, conical piles of manure on a dirt floor. In the background, there is a metal walkway or platform with railings, and a sign with the number '24' is visible on the wall.

Direction Photo Taken: West
Photo Description: Photo of manure containment in barn

A black and white photograph showing the interior of a large barn, viewed from the opposite side of the first image. It shows large piles of manure on the floor and a metal walkway with railings in the background. A sign with the number '24' is visible on the wall.

Rotary dryer in Arlington

Photo from Don't Waste Arizona
(photo taken by member on July 6,
2015)



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Rotary dryer in Arlington



Rotary dryer in Arlington

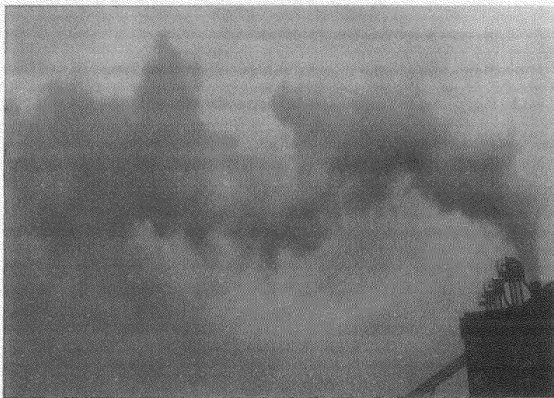

Site Location: Hickman's Egg Ranch - 32425 W. Salome Hwy, Arlington, AZ 85322		Photographer: Emily Bonanni	Camera: Surface Tablet	Photo No. 2	Date: 3/11/2015	
Weather: Sky Overcast					Direction Photo Taken: North	
Photo No. 1	Date: 3/11/2015				Photo Description: Close up photo of steam plume from the operating rotary dryer.	
Direction Photo Taken: North						
Photo Description: Photo taken from Ward Rd.						

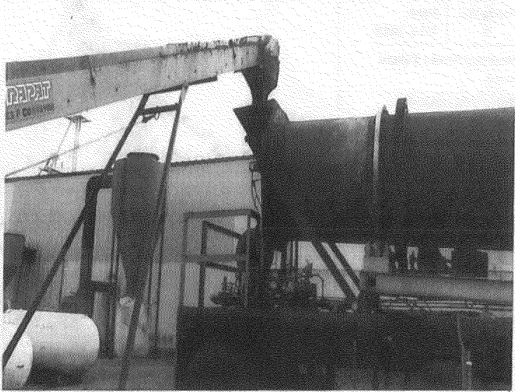
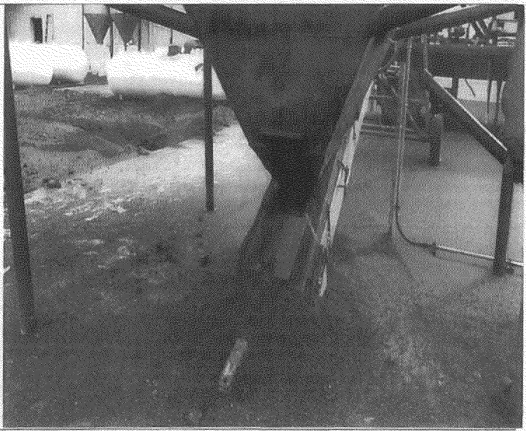
Photo No. 3	Date: 3/11/2015	
Direction Photo Taken: East		
Photo Description: Photo of the Input into the rotary dryer.		

Photo No. 4	Date: 3/11/2015	
Direction Photo Taken: East		
Photo Description: Photo of the bottom of the hopper conveyer that feeds materials into the rotary dryer.		

Facility	Source	VOC emission	PM-10 emission	Other emission	Control technology	Permitted?	Recordkeeping
Tonopah	Chicken house fans	Yes	Yes		None	No	No
Arlington	Chicken house fans	Yes	Yes		None	No	No
Arlington	Rotary Dryer 1 stack and manure belt to dryer	Yes	Yes		Baghouse and scrubber	Under ADEQ Ag BMP and Maricopa County permit (fuel only)	ADEQ: monthly monitoring from stack; Maricopa County: fuel amount
Arlington	Pellet Rotary Dryer 2 stack and manure belt to dryer	Yes	Yes		Baghouse and scrubber	Under ADEQ Ag BMP and Maricopa County permit (fuel only)	ADEQ: monthly monitoring from stack; Maricopa County: fuel amount
Arlington	Egg processing (boiler and chiller)			No info	No info	No	None
Arlington	Protein plant boilers	Yes – limited to 1,500 lbs/12 mos.			Wet scrubber	Yes	Daily hours cooker exhaust is vented to wet scrubber and O&M Plan

Equipment covered by the MCAQ Permit – Arlington (updated June 2016)

- Covered Protein plant – wet scrubber
 - Rotary dryer – fuel use limitations (and opacity limit to 20% under fuel use)
 - Emergency generators
 - Boilers – fuel use limitations
 - Crematory – de minimus - not in use
- Not covered
 - Chicken house fans

Under the MCAQ Permit - Tonopah

- Covered
 - Emergency generators
- Not covered
 - Chicken house fans

PM2.5

- Ammonia is a precursor to PM2.5
- Dust